

090202-103000

5

creating a pocket beneath the mucosa and in communication with the

enlarging the puncture; and

10

3. A method of implanting a bulking device as in Claim 2, wherein the

15

5. A method of implanting a bulking device as in Claim 1, wherein the

20

7. A method of implanting a bulking device as in Claim 5, wherein the fluid

comprises saline.

25

8. A method of implanting a bulking device as in Claim 5, wherein the fluid comprises an additive selected from the group consisting of hyaluronic acid, lidocaine, epinephrine, antibiotics, polyethylene glycol, colorants, and contrast media.

9. A method of implanting a bulking device as in Claim 5, wherein the introducing a volume of fluid is accomplished using an injection needle.

30

10. A method of implanting a bulking device as in Claim 9, wherein the needle is within the range of from about 18 gauge to about 30 gauge.

25. A method as in Claim 19, wherein the removing step is accomplished using an energy source.

26. A method as in Claim 19, wherein the removing step comprises cutting the bulking device into pieces.

27. A method of explanting a bulking device positioned beneath the mucosa in the vicinity of the lower esophageal sphincter, comprising the steps of:

locating a bulking device positioned beneath the esophageal mucosa;

establishing a passage through the mucosa; and

explanting the bulking device through the passage.

28. A method of explanting a bulking device as in Claim 27, wherein the explanting step is accomplished using an endoscope.

29. A method of explanting a bulking device as in Claim 27, wherein the establishing a passageway step is accomplished using an RF electrode.

30. A method of explanting a bulking device as in Claim 27, wherein the establishing a passageway step is accomplished using a sharpened instrument.

31. A method of explanting a bulking device as in Claim 27, wherein the explanting step is accomplished by applying suction.

32. A method of explanting a bulking device as in Claim 27, wherein the explanting step comprises pushing the bulking device through the passage.

33. A method of explanting a bulking device as in Claim 27, wherein the explanting step is accomplished using a mechanical explanting tool.

34. A method of implanting a bulking device beneath the mucosa in the lower esophagus, comprising the steps of:

puncturing the mucosa with a device having a first cross sectional area;

enlarging the puncture; and

introducing an expandable bulking device through the puncture to a position beneath the mucosa.

35. A method of implanting a bulking device as in Claim 34 wherein the introducing step comprises introducing a hydrogel bulking device.

36. A method of implanting a bulking device as in Claim 34, wherein the enlarging step comprises advancing a dilator through the puncture.

SECRET